Map symbol and soil name	Pond reservoir ar	eas	Embankments, dikes levees	, and	Aquifer-fed excavated pond	ls
	Rating class and limiting features		Rating class and limiting features 		Rating class and limiting features	
7A: Wiota	·				 Very limited Deep to water	 1.00
13B: Olmitz	·				 Very limited Deep to water	1 1.00
Colo			 Very limited Depth to saturated zone	11.00	 Somewhat limited Slow refill 	 0.30
Vesser				1 1.00	Cutbanks cave Somewhat limited Slow refill	0.10 0.30
		 	Piping	0.10	'	0.10
24D2: Shelby	Seepage	0.05	İ		 Very limited Deep to water 	11.00
24D3: Shelby	Seepage	 0.05 0.01		 	 Very limited Deep to water 	1 1.00
4E2: Shelby	Seepage	 0.05 0.04	•	 	 Very limited Deep to water 	1 1.00
24E3: Shelby	Seepage	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	[Very limited Deep to water 	1 1.00
51A: Vesser			Depth to		 Somewhat limited Slow refill 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	 		Piping 	0.10		0.10

Map symbol and soil name	Pond reservoir ar	eas	Embankments, dikes levees	, and	Aquifer-fed excavated pond	ls
	Rating class and limiting features		 Rating class and limiting features 		 Rating class and limiting features 	
71B: Vesser	'		Depth to saturated zone	11.00	 Somewhat limited Slow refill Cutbanks cave Deep to water	0.30
4A: Zook	 Somewhat limited Seepage 		saturated zone	11.00	 Somewhat limited Slow refill Cutbanks cave	 0.95 0.10
64B: Zook	 Not limited 		saturated zone	11.00	 Somewhat limited Slow refill Cutbanks cave	 0.95 0.10
6B: Cantril		0.70	Depth to saturated zone	0.43	 Somewhat limited Slow refill Deep to water Cutbanks cave	 0.30 0.25 0.10
5E2: Lindley	Seepage				 Very limited Deep to water 	 1.00
5E3: Lindley	Seepage		Piping		 Very limited Deep to water 	1 1.00
5F: Lindley	Slope				 Very limited Deep to water 	11.00
55F2: Lindley	Slope		Piping		 Very limited Deep to water 	11.00

Map symbol and soil name	Pond reservoir ar	eas	Embankments, dikes levees	, and	-	ls
			Rating class and limiting features			
65F3: Lindley			Piping			
55G2: Lindley	Slope		Piping		 Very limited Deep to water 	11.00
93D2: Adair	Seepage 	0.05	saturated zone	11.00	 Somewhat limited Slow refill Cutbanks cave	 0.95 0.10
Shelby		 0.05 0.01	Ī	 	 Very limited	0.01 1.00
93D3: Adair	Seepage 		Depth to saturated zone	11.00	 Cutbanks cave	 0.95 0.10 0.01
Shelby		 0.05 0.01			 Very limited	1 1.00
94D2: Mystic	Seepage		 Somewhat limited Seepage 	0.03	Slow refill	 0.81 0.30 0.10
Caleb		0.70	Piping	0.51		 0.81 0.30 0.10
04D3: Mystic	 - Somewhat limited Seepage Slope	 0.70 0.01		0.03	 Somewhat limited Deep to water Slow refill Cutbanks cave	 0.81 0.30 0.10

Map symbol and soil name	Pond reservoir ar	eas	Embankments, dikes levees	, and	Aquifer-fed excavated pond	ls
	Rating class and limiting features		Rating class and limiting features			Value
Caleb	Seepage	0.70	Piping		· •	 0.81 0.30 0.10
4E2: Mystic	Seepage	0.70	 Somewhat limited Seepage 		Slow refill	 0.81 0.30 0.10
Caleb	Seepage	0.70	Piping	0.51	Deep to water Slow refill	 0.81 0.30 0.10
4E3: Mystic	Seepage		Seepage		Slow refill	 0.81 0.30 0.10
Caleb		 0.70 0.04 	Piping	0.51	Slow refill	 0.81 0.30 0.10
30: Belinda	 Somewhat limited Seepage 	0.01	 Very limited Depth to saturated zone		 Somewhat limited Slow refill Cutbanks cave	0.30
31B: Pershing	 Somewhat limited Seepage 	 0.05 	 Somewhat limited Depth to saturated zone 		 Somewhat limited Slow refill Deep to water Cutbanks cave	 0.95 0.25 0.10
31C: Pershing		 0.05 	 Somewhat limited Depth to saturated zone 	 0.43 	 Deep to water	 0.95 0.25 0.10

Water Management

Appanoose County, Iowa

Map symbol and soil name	Pond reservoir ar	eas	Embankments, dikes levees	, and	Aquifer-fed excavated pond	ls
	Rating class and limiting features		Rating class and limiting features		 Rating class and limiting features 	Value
31C2:	 		 		 	
Pershing		 0.05 	Somewhat limited Depth to saturated zone		Somewhat limited Slow refill 	 0.95
		<u> </u> 		į Į	Deep to water Cutbanks cave	0.25
32B:						
weller	•		Somewhat limited Depth to saturated zone	0.43	•	 0.95
	 	 	 	 	Deep to water Cutbanks cave 	0.25 0.10
132B2: Weller	 - Somewhat limited Seepage		•		 Somewhat limited Slow refill	10.95
	Seepage		•	0.43	İ	İ
	 		 	 	Deep to water Cutbanks cave	0.25 0.10
32C2: Weller	 - Somewhat limited	; 	 Somewhat limited		 Somewhat limited	i I
	Seepage 	0.05 	Depth to saturated zone	0.43	Slow refill 	0.95
			 - -		Deep to water Cutbanks cave	0.25
32D2: Weller	•		 Somewhat limited		 Somewhat limited	i I
	i	İ	saturated zone	İ	Slow refill 	0.95
	Slope 	0.01	 	 	Deep to water Cutbanks cave 	0.25 0.10
33+: Colo					 Somewhat limited	
	Seepage 	10.70	Depth to saturated zone	11.00	Slow refill	10.30
33A:			 	 	Cutbanks cave 	0.10
			. 4		 Somewhat limited Slow refill	10.30
		 	-	i I	 Cutbanks cave	10.10

Map symbol and soil name	Pond reservoir ar	eas	Embankments, dikes levees		Aquifer-fed excavated pond	ls
	Rating class and limiting features		Rating class and limiting features 			
33B: Colo	 - Somewhat limited Seepage 	 0.70	 Very limited Depth to saturated zone	11.00	 Somewhat limited Slow refill Cutbanks cave	 0.30 0.10
72: Wabash	 - Not limited 	 	Depth to saturated zone	1 1.00	 Very limited Slow refill 	 1.00
79D2: Gara		 0.05	 Not limited	 	Cutbanks cave Very limited Deep to water 	0.10 1.00
79D3: Gara	Seepage	 0.05 0.01	•	 	 Very limited Deep to water 	 1.00
79E: Gara	= =		Piping		 Very limited Deep to water 	1 1 1 1 1 1 1 1 1 1
79E2: Gara	Seepage	 0.05 0.04		 	 Very limited Deep to water 	1 1 1 1 1 1 1 1 1 1
79E3: Gara		 0.05 0.04	Ī	 	 Very limited Deep to water 	1 1 1 1 1 1 1 1 1 1
	 - Somewhat limited Slope Seepage					1 1 1 1 1 1 1 1 1 1
92C: Adair	 - Somewhat limited Seepage 	 0.05 	 Very limited Depth to saturated zone 	1 1.00	 Somewhat limited Slow refill Cutbanks cave Deep to water	 0.95 0.10 0.01

Map symbol and soil name	Pond reservoir ar	eas	Embankments, dikes levees	, and	Aquifer-fed excavated pond	ls
	Rating class and limiting features		 Rating class and limiting features 		 Rating class and limiting features 	Value
92C2: Adair				 1.00 	 Somewhat limited Slow refill Cutbanks cave Deep to water	 0.95 0.10 0.01
92D2: Adair	•		saturated zone	11.00	 Somewhat limited	 0.95 0.10 0.01
08: Landes Variant	 - Very limited Seepage 		Piping	0.88	 Somewhat limited Deep to water Slow refill Cutbanks cave	 0.96 0.95 0.10
211: Edina	 - Not limited 		Depth to saturated zone	11.00	 Somewhat limited Slow refill Cutbanks cave	0.30
20: Nodaway			 Very limited Piping 		 Somewhat limited Deep to water Slow refill Cutbanks cave	 0.81 0.30 0.10
222C: Clarinda	 - Not limited 	 	 Very limited Depth to saturated zone Hard to pack	11.00	 Very limited Slow refill Cutbanks cave Deep to water	 1.00 0.10 0.01
222C2: Clarinda			 Very limited Depth to saturated zone Hard to pack	11.00	 Somewhat limited Slow refill Cutbanks cave Deep to water	 0.99 0.10 0.01

Map symbol and soil name	Pond reservoir ar	eas	Embankments, dikes levees	, and	Aquifer-fed excavated pond	ls
			 Rating class and limiting features 			
22C3:	 	 	 	i		i I
Clarinda	Not limited 	 	Very limited Depth to saturated zone	1.00	 Very limited Slow refill	11.00
	 	 	Hard to pack 		Cutbanks cave Deep to water	0.10 0.01
22D2:	 		 		 	
Clarinda		0.01		11.00	Somewhat limited Slow refill	10.99
	 Slope 				Cutbanks cave Deep to water	0.10
60:	 		 			
Beckwith				11.00	Somewhat limited Slow refill 	10.30
	 		•		Cutbanks cave	0.10
261:	 		 		 Somewhat limited	
Appanoose	 - 		' -	11.00	Slow refill	10.30
	 -	i i	Hard to pack		Cutbanks cave	0.10
269A: Humeston	 Somewhat limited		 Very limited	 	 Somewhat limited	
names con	Seepage	0.57	-	11.00		0.30
] [Cutbanks cave 	0.10
269B: Humeston	 Somewhat limited Seepage	1 10.57			 Somewhat limited Slow refill	1 1 1 0 . 30
		į Į	saturated zone	İ	Cutbanks cave	0.10
273B:				 		
Olmitz			Somewhat limited Piping 		Very limited Deep to water 	11.00
12B: Seymour	 Somewhat limited	 	 Somewhat limited	 	 Somewhat limited	i i
-	Seepage 	0.05	Hard to pack Depth to	0.48	Slow refill	0.95 0.25
	 	 	saturated zone 		 Cutbanks cave	 0.10

Map symbol and soil name	Pond reservoir ar 	eas	Embankments, dikes, and levees		•	ls
	Rating class and limiting features		Rating class and limiting features			
312C2:	 		 		 	1
Seymour	•		Hard to pack	0.48	Deep to water	 0.95 0.25 0.10
313D2: Gosport	 Somewhat limited	 	 Very limited	 	 Very limited	
	Depth to bedrock Slope 		Depth to saturated zone	0.95	Cutbanks cave	1.00 0.10 0.02
Clanton		0.01			 Very limited Deep to water	1 1.00
313E2: Gosport	Depth to bedrock	0.11	Hard to pack	1.00 0.95	 Very limited Slow refill Cutbanks cave 	 1.00 0.10
	 		Thin layer 	0.86	Deep to water	0.02
Clanton		0.04	Not limited	 	Very limited Deep to water	11.00
313F2:	 	 	 		 	
Gosport		0.15	Hard to pack Depth to saturated zone	1.00 0.95	Cutbanks cave	 1.00 0.10 0.02
Clanton		0.15	 Not limited 		 Very limited Deep to water	11.00
315:	 		 		 	
Nodaway			Very limited Piping 			 0.81 0.30 0.10
Alluvial Land	 Not rated		 Not rated		 Not rated	

Map symbol and soil name	Pond reservoir ar	eas	Embankments, dikes levees	, and	Aquifer-fed excavated pond	ls
	Rating class and limiting features		Rating class and limiting features 		 Rating class and limiting features 	Value
54:		 	 		 	
Marsh	- Not rated		Not rated 		Not rated 	
62:			 		 	
Haig			•	11.00	Somewhat limited Slow refill	10.30
	i i		•		 Cutbanks cave 	0.10
64B: Grundy	 - Not limited		Depth to	0.95	 Very limited Slow refill	1 1.00
			saturated zone Hard to pack 	0.77	 Cutbanks cave Deep to water	10.10
06:			 		 	
Kennebec	1		Somewhat limited Piping 	0.89	Somewhat limited Deep to water Slow refill Cutbanks cave	 0.81 0.30 0.10
Amana	- Somewhat limited Seepage			0.43	 Somewhat limited Slow refill	10.30
			saturated zone Piping 		 Deep to water Cutbanks cave	 0.25 0.10
13D2:			 		 	
Sogn	Seepage Depth to bedrock	11.00	Thin layer Piping		Very limited Deep to water 	 1.00
Clanton	- Somewhat limited Slope	0.02	•		 Very limited Deep to water	11.00
Gosport		0.11	Hard to pack	11.00	 Very limited Slow refill Cutbanks cave 	 1.00 0.10
	!				Deep to water	0.02

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated pond	is
	Rating class and limiting features		Rating class and limiting features 		Rating class and limiting features 	
22: Amana		 0.70 	•	0.43	 Somewhat limited Slow refill Deep to water Cutbanks cave	 0.30 0.25 0.10
25C: Keswick	 Somewhat limited Seepage 	 0.05 	 Very limited Depth to saturated zone 	1 1.00	 Somewhat limited Slow refill Cutbanks cave Deep to water	 0.95 0.10 0.01
25C2: Keswick	 Somewhat limited Seepage 	 0.05 	 Very limited Depth to saturated zone 	 1.00 	 Somewhat limited Slow refill Cutbanks cave Deep to water	 0.95 0.10 0.01
5D: eswick		 0.05 0.01	saturated zone	 1.00 	 Somewhat limited Slow refill Cutbanks cave Deep to water	 0.95 0.10 0.01
5D2: eswick	 Somewhat limited Seepage Slope		saturated zone	 1.00 	 Somewhat limited Slow refill Cutbanks cave Deep to water	 0.95 0.10 0.01
25D3: Keswick	 Somewhat limited Seepage Slope	 0.05 0.01	saturated zone	1 1.00	 Cutbanks cave	 0.95 0.10
52B: Jineville	 		 Very limited	1 1.00	 Very limited	0.01 1.00 0.10
	i	i		i	Deep to water	0.01

Map symbol and soil name	Pond reservoir ar	eas	Embankments, dikes levees	Embankments, dikes, and levees		ls
	Rating class and limiting features		Rating class and limiting features 		Rating class and limiting features	Value
152C: Lineville	 Not limited 			 1.00 	 Cutbanks cave	 1.00 0.10
152C2: Lineville	 Not limited 	 	 Very limited Depth to saturated zone 	11.00	Deep to water Very limited Slow refill Cutbanks cave Deep to water	0.01 1.00 0.10 0.01
153A: Tuskeego	 Not limited 		Depth to	11.00	 Somewhat limited Slow refill Cutbanks cave	0.30
153B: Tuskeego	 Not limited 		•	11.00	 Somewhat limited Slow refill Cutbanks cave	 0.30 0.10
167: Radford	 Somewhat limited Seepage 	 0.70 		11.00	 Somewhat limited Slow refill Cutbanks cave Deep to water	 0.30 0.10 0.01
520: Coppock	 Somewhat limited Seepage 		 Very limited Depth to saturated zone Piping 	1.00 0.01	 Somewhat limited Slow refill Cutbanks cave Deep to water	 0.30 0.10 0.01
531B: Kniffin	 Somewhat limited Seepage 		Depth to saturated zone	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 Somewhat limited Slow refill	 0.95 0.25
	 		Hard to pack 	0.41	Deep to water Cutbanks cave	0.2

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features		Rating class and limiting features 			Value
531C: Kniffin			 		 Somewhat limited Slow refill	 0.95
	Seepage 		saturated zone	 0.41		 0.25 0.10
31c2: Kniffin				0.43	 Somewhat limited Slow refill Deep to water	 0.95 0.25
32B: Rathbun			 - - Somewhat limited	 	Cutbanks cave	0.10
	Seepage 	0.05 	Depth to saturated zone Hard to pack 	 0.37	Slow refill Deep to water Cutbanks cave	0.95 0.25 0.10
32B2: Rathbun { 	•		Depth to saturated zone	0.43	 Somewhat limited Slow refill	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
200	 	 	Hard to pack 	0.37	Deep to water Cutbanks cave 	0.25 0.10
532C: Rathbun				0.43	 Somewhat limited Slow refill 	 0.95
] 	 	Hard to pack 		Deep to water Cutbanks cave 	0.25 0.10
32C2: Rathbun	 Not limited 	 	Hard to pack Depth to	0.60	 Very limited Slow refill Deep to water 	 1.00 0.25
34:		 	 	 	Cutbanks cave 	0.10
534: Carlow	Not limited			11.00	 Very limited Slow refill	11.00
					 Cutbanks cave	0.10

Map symbol and soil name	Pond reservoir areas 		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features		Rating class and limiting features			Value
587: Chequest	 - Somewhat limited Seepage 	 0.05 	 Very limited Depth to saturated zone Hard to pack	11.00	 Somewhat limited Slow refill Cutbanks cave	 0.95 0.10
592C2: Mystic	 Somewhat limited Seepage 	 0.70 	 Somewhat limited Seepage 	0.03	 Somewhat limited Deep to water Slow refill Cutbanks cave	 0.81 0.30 0.10
592C3: Mystic	 Somewhat limited Seepage 	 0.70 	 Somewhat limited Seepage 	0.03	 Somewhat limited Deep to water Slow refill Cutbanks cave	 0.81 0.30 0.10
592D2: Mystic	Seepage	 0.70 0.01		0.03	 Somewhat limited Deep to water Slow refill Cutbanks cave	 0.81 0.30 0.10
592D3: Mystic	Seepage	 0.70 0.01		0.03	 Somewhat limited Deep to water Slow refill Cutbanks cave	 0.81 0.30 0.10
752C: Lineville Variant	 Not limited 	 	 Very limited Depth to saturated zone 	11.00	 Very limited Slow refill Cutbanks cave Deep to water	 1.00 0.10 0.01
752C2: Lineville Variant	 Not limited 	 	 Very limited Depth to saturated zone 	11.00	 Very limited	 1.00 0.10 0.01

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features		Rating class and limiting features		Rating class and limiting features	
92C2: Armstrong		 0.05 	 Very limited Depth to saturated zone 	 1.00 	 Cutbanks cave	 0.95 0.10
92C3: Armstrong		 0.05 	 Very limited Depth to saturated zone 	 1.00 	Deep to water Somewhat limited Slow refill Cutbanks cave Deep to water	0.01 0.95 0.10 0.01
92D2: Armstrong	Seepage 	 0.05 0.01	saturated zone	1.00	 Somewhat limited Slow refill Cutbanks cave Deep to water	 0.95 0.10 0.01
92D3: Armstrong		 0.05 0.01	 Very limited Depth to saturated zone 	 1.00 	 Somewhat limited Slow refill Cutbanks cave Deep to water	 0.95 0.10 0.01
95C2: Ashgrove	 Not limited 	 	 Very limited Depth to saturated zone Hard to pack	1.00	 Very limited Slow refill 	 1.00 0.10 0.01
95D2: Ashgrove		 0.01 	 Very limited Depth to saturated zone Hard to pack 	1.00 0.55	 Cutbanks cave	 1.00 0.10 0.01
22D2: Lamoni	•	 0.01 	 Very limited Depth to saturated zone 	 1.00 	 Very limited Slow refill Cutbanks cave Deep to water	 1.00 0.10 0.01

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Appanoose County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
			Rating class and limiting features 			
322D3:			 	 	 	
Lamoni			Very limited Depth to saturated zone		Very limited Slow refill 	 1.00
			 		Cutbanks cave Deep to water	0.10
993D2:			 		 	
Armstrong		0.05	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill	 0.95
	Slope	0.01			Cutbanks cave Deep to water	0.10
Gara		 0.05 0.01	İ		 Very limited Deep to water 	1 1.00
993D3:			 		 	
Armstrong	- Somewhat limited Seepage	0.05			Somewhat limited Slow refill	10.95
	Slope	0.01	•	•	Cutbanks cave Deep to water	0.10
Gara		 0.05 0.01	İ		 Very limited Deep to water 	1 1.00
993E2:						
Armstrong		10.05	Very limited Depth to saturated zone	11.00	Somewhat limited Slow refill 	 0.95
	Slope	0.04	 		Cutbanks cave Deep to water	0.10
Gara		 0.05 0.04			 Very limited Deep to water 	11.00
993E3:	1		 	 	 	
	- Somewhat limited Seepage	0.05	Very limited Depth to saturated zone	11.00	Somewhat limited Slow refill	10.95
	Slope	0.04	•	•	 Cutbanks cave Deep to water	0.10

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features		Rating class and limiting features		Rating class and limiting features 	Value
Gara	Seepage	0.05	!	 	 Very limited Deep to water	
5030: Mines And Quarries	 Not rated 	 	 Not rated 	 	 Not rated 	
I130: Belinda			 Very limited Depth to saturated zone 		 Somewhat limited Slow refill Cutbanks cave	 0.30 0.10
T131B: Pershing		 0.05 	•		 Somewhat limited Slow refill Deep to water Cutbanks cave	 0.95 0.25
Pershing		 0.05 	'		 	 0.95 0.25
F132B: Weller		 0.05	•	 0.43 	 Somewhat limited Slow refill Deep to water	 0.95 0.25
T132C: Weller		 0.05	•		Cutbanks cave Somewhat limited Slow refill Deep to water Cutbanks cave	0.10 0.95 0.25 0.10